



SHEET 1 OF 1

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 4770-37	SERIAL NO. 10/688,216
	APPLICANT JACKSON et al.	
	FILING DATE October 15, 2003	GROUP ART 3673

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SS	AA	5,234,527	08/10/93	Sugden et al.	299	10	
I	AB	5,310,249	05/10/94	Sugden et al.	299	1.3	
	AC	5,680,760	10/28/97	Lunzman	60	426	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
SS	AD	WO 82/01749	05/27/82	PCT	F15B	11/05	X	
I	AE	WO 02/01045 A1	01/03/02	PCT (English abstract attached)	E21D	9/10		X
	AF	1,370,085	07/09/63	France	E21C			X
	AG	EP 0 791 694 A1	08/27/97	EPO	E02F	3/43	X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER <i>Sunil Singh</i>	DATE CONSIDERED <i>3/18/05</i>
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
SS	1.	1,176,884	03/28/16	E.L. Davidson			
	2.	1,211,679	01/09/1917	Gogu Constantinesco			
	3.	1,566,460	12/22/25	Wyman			
	4.	3,309,145	03/14/67	Arentzen	299	71	
	5.	3,341,254	09/12/67	Amdt	299	18	
	6.	3,371,964	03/05/68	Karl-Heinz Weber	299	1.1	
	7.	3,477,762	11/11/69	Frenyo et al.	299	10	
	8.	3,544,075	12/01/1970	David B. Sugden	259	1	
	9.	3,581,500	06/01/1971	David B. Sugden	60	54.5R	
	10.	3,584,918	06/15/71	Gaglione et al.	299	31	
	11.	3,596,724	08/03/1971	Bechem	175	331	
	12.	3,598,445	08/10/71	Winberg	299	31	
	13.	3,647,263	03/07/72	Lauber et al.	299	31	
	14.	3,663,054	05/16/72	Dubois	299	18	
	15.	3,695,717	10/03/72	Birner	299	31	
	16.	3,719,394	03/06/73	Hartley	299	1.1	
	17.	3,776,592	12/04/73	Ewing	299	1	
	18.	3,784,257	01/08/74	Lauber et al.	299	31	
	19.	3,788,703	01/29/74	Thorpe	299	14	
	20.	3,840,270	10/08/74	Allgood	299	14	
	21.	3,847,584	11/12/74	Houser et al.	65	40	

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SS	22.	3,860,292	01/14/1975	Bechem	299	86	
	23.	3,861,748	01/21/75	Cass	299	10	
	24.	3,904,244	09/09/75	Haspert	299	34.04	
	25.	3,907,366	09/23/75	Pender	299	18	
	26.	3,957,310	05/18/76	Winberg et al.	299	31	
	27.	3,963,080	06/15/76	Walker	175	94	
	28.	4,045,088	08/30/77	Bechem	299	31	
	29.	4,045,088	08/30/1977	Bechem	299	31	
	30.	4,159,852	07/03/79	Montgomery	299	56	
	31.	4,176,884	12/79	Erwien et al.	299	34.08	
	32.	4,189,186	02/19/80	Snyder	299	31	
	33.	4,232,905	11/11/80	Dick	299	31	
	34.	4,284,368	08/18/81	Albright	405	291	
	35.	4,312,541	01/26/82	Spurgeon	299	31	
	36.	4,323,280	04/06/82	Lansberry	299	1	
	37.	4,375,594	03/01/83	Ewanizky, Jr.	307	110	
	38.	4,391,469	07/05/83	Arsuaga	299	11	
	39.	4,527,837	07/09/85	Snyder	299	31	
	40.	4,541,848	09/17/85	Masuda	55	139	
	41.	4,548,442	10/22/85	Sugden et al.	299	10	
	42.	4,568,127	02/04/86	Traumüller et al.	299	81	
	43.	4,572,583	02/25/86	Traumüller et al.	299	81	
	44.	4,578,627	03/25/86	Dröschner et al.	318	632	
	45.	4,591,209	05/27/86	Dröschner et al.	299	1	
	46.	4,603,910	08/05/86	Laneus	299	13	

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Sg	47.	4,637,657	01/20/87	Snyder	299	31	
	48.	4,641,889	02/10/87	Brandl	299	75	
	49.	4,643,567	02/17/87	Dröschner et al.	356	152	
	50.	4,662,685	05/05/87	Bärthaler et al.	299	33	
	51.	4,664,449	05/12/87	Bärthaler et al.	299	74	
	52.	4,669,785	06/02/87	Brandl	299	68	
	53.	4,688,855	08/25/87	Bärthaler et al.	299	75	
	54.	4,698,518	09/29/87	Zitz et al.	299	75	
	55.	4,711,502	12/08/87	Bärthaler et al.	299	33	
	56.	4,729,445	03/08/88	Kdileth	180	9.48	
	57.	4,735,458	04/05/88	Wrulich et al.	299	81	
	58.	4,736,987	04/12/1988	Lenzen et al.	299	86	
	59.	4,741,405	05/03/88	Moeny	175	16	
	60.	4,744,431	05/17/88	Stöflinger	180	9.5	
	61.	4,753,484	06/28/88	Stolarczyk	299	1	
	62.	4,758,049	07/19/88	Wernigg et al.	299	33	
	63.	4,770,469	09/13/88	Schellenberg et al.	299	1	
	64.	4,784,439	11/15/88	Wrulich et al.	299	57	
	65.	4,786,112	11/22/88	Brandl	299	76	
	66.	4,796,713	01/10/1989	Bechem et al.	175	96	
	67.	4,805,963	02/21/89	Kogler et al.	299	33	
	68.	4,815,543	03/28/1989	Lenzen et al.	175	350	
	69.	4,834,197	05/30/89	Bauer et al.	175	91	
	70.	4,875,738	10/24/89	Zitz et al.	299	80	
	71.	4,878,714	11/07/89	Bärthaler et al.	299	67	

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SS	72.	4,884,847	12/05/89	Bessinger et al.	299	1	
	73.	4,921,307	05/01/90	Braun et al.	299	34	
	74.	4,921,309	05/01/90	Harrison	299	75	
	75.	4,957,606	09/18/90	Juvan	204	164	
	76.	4,958,696	09/25/90	Lerchbaum	180	6.7	
	77.	4,966,417	10/30/90	Zitz et al.	299	33	
	78.	5,007,683	04/16/91	Granskog	299	10	
	79.	5,050,934	09/24/91	Brandl et al.	299	33	
	80.	5,072,994	12/17/91	Brandl et al.	299	67	
	81.	5,098,166	03/24/92	Ebner et al.	299	81	
	82.	5,103,705	04/14/1992	Bechem	83	491	
	83.	5,108,154	04/28/92	Brandl et al.	299	76	
	84.	5,121,971	06/16/92	Stolarczyk	299	1.6	
	85.	5,161,857	10/10/92	Mayercheck	299	30	
	86.	5,178,494	01/12/93	Zitz et al.	405	290	
	87.	5,181,934	01/26/93	Stolarczyk	299	1.2	
	88.	5,190,353	03/02/1993	Bechem	299	86	
	89.	5,228,552	07/20/93	Brandl et al.	198	515	
	90.	5,268,683	12/07/93	Stolarczyk	340	854.4	
	91.	5,333,936	08/02/94	Zitz	299	64	
	92.	5,340,199	08/23/94	Piefenbrink et al.	299	10	
	93.	5,368,369	11/29/94	Malty et al.	299	11	
	94.	5,438,517	08/01/95	Sennott et al.	364	449	
	95.	5,439,274	08/08/95	Krueckl	299	59	
	96.	5,513,903	05/07/96	Mraz	299	18	

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SS	97.	5,557,979	09/24/96	Krassnitzer et al.	74	377	
	98.	5,582,467	12/10/96	Drolet et al.	299	33	
	99.	5,685,615	11/11/1997	Bechem et al.	299	110	
	100.	5,752,572	05/19/1998	Balden et al.	175	26	
	101.	5,810,447	09/22/98	Christopher et al.	299	30	
	102.	5,896,938	04/27/99	Moery	175	1	
	103.	5,939,986	08/17/99	Schiffbauer et al.	340	573.1	
	104.	5,964,305	10/12/1999	Arzberger et al.	175	91	
	105.	5,992,941	11/30/01	Delli-Gatti, Jr.	299	64	
	106.	5,999,865	12/07/99	Bloomquist et al.	701	25	
	107.	6,027,175	02/22/00	Seear et al.	299	18	
	108.	6,058,029	05/02/00	Itow et al.	363	59	
	109.	6,062,650	05/16/00	Smith et al.	299	1.4	
	110.	6,109,699	08/29/00	Mraz	299	10	
	111.	6,139,477	10/31/2000	Bechem et al.	483	1	
	112.	6,164,388	12/26/00	Martunovich et al.	175	1	
	113.	6,206,478	03/27/01	Uehara et al.	299	33	
	114.	6,215,734	04/10/01	Moery	367	147	
	115.	6,224,164	05/01/01	Hall et al.	299	75	
	116.	6,244,664	06/12/01	Ebner et al.	299	80.1	
	117.	6,257,671	07/10/01	Siebenhofer et al.	299	1.6	
	118.	6,308,787	10/30/01	Aft	175	48	
	119.	6,315,062	11/13/01	Aft et al.	175	45	
	120.	6,431,653 B1	08/13/002	Kleuters	299	31	
	121.	6,505,892 B1	01/14/2003	Walker et al.	299	32	

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SS	122.	6,547,336 B2	04/15/2003	Hoffmann	299	10	
	123.	2001/0015573	08/23/01	Mraz	299	10	12/13/00
	124.	2002/0096934 A1	07/25/2002	Seear et al.	299	18	
	125.	2002/0074849 A1	06/20/2002	Paschedag et al.	299	13	
	126.	2002/0093239 A1	07/18/2002	Sugden	299	71	
	127.	2003/0173819 A1	09/18/03	Hames et al.	299	001.9	12/04/02

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
SS	128.	AU-B-12696/88	03/04/88	Australia	E21D	9/10	X	
	129.	AU-A-62506/86	09/09/86	Australia	E21C	27/24	X	
	130.	AU-A-55091/86	03/24/86	Australia	E21C	27/30	X	
	131.	AU-B-37937/85	01/21/85	Australia	E21C	27/24	X	
	132.	AU-B-45200/85	07/19/85	Australia	E21C	27/24	X	
	133.	AU-B-45843/85	08/06/85	Australia	E21C	27/24	X	
	134.	AU-B-74104/94	09/20/94	Australia	E21C	035/06	X	
	135.	AU-B-36721/84	11/15/84	Australia	E21D	9/08	X	
	136.	AU-B-17369/83	07/27/83	Australia	E21C	27/24	X	
	137.	AU-B-71068/81	05/27/81	Australia	E21C	27/01	X	
	138.	AU-B-66910/81	08/20/81	Australia	E21C	27/24	X	
	139.	AU-B-56857/80	03/26/80	Australia	E21C	27/24	X	
	140.	AU-B-56858/80	03/26/80	Australia	E21C	27/24	X	

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CS	141.	1 262 368	10/17/89	Canada	E21C	27/24	X	
	142.	1 218 388	02/24/87	Canada	E21C	27/24	X	
	143.	1 214 797	12/02/86	Canada	E21C	25/16	X	
	144.	2,291,043	5/19/98	Canada	E21D	9/10	X	
	145.	2,121,044	09/22/92	Canada	E21C	029/00	X	
	146.	2,109,921	05/20/92	Canada	E21D	9/10	X	
	147.	115 942 A2	01/25/84	EPO			X	
	148.	115 942 B1	05/12/90	EPO	E21D	9/10	X	
	149.	JP59192195 A2	10/31/84	Japan	E21D	9/10		X
	150.	WO 98/35133	08/13/98	PCT	E21C	27/24	X	
	151.	WO 97/48883	12/24/97	PCT	E21C	29/24	X	
	152.	WO 85/02653	08/20/85	PCT	E21C	41/00	X	
	153.	WO 84/02951	08/02/84	PCT	E21D	9/08	X	
	154.	WO 0043637	07/27/00	PCT	E21D	9/10	X	
	155.	WO00/46486	08/10/00	PCT	e21c	25/16	X	
	156.	WO 03/050391 A2	06/19/03	PCT	E21C	25/16	X	
	157.	99/7873	03/12/01	South Africa				
	158.	99/2714	10/25/99	South Africa				
	159.	98/8239	09/09/98	South Africa	E21C			
	160.	97/4804	12/09/97	South Africa				
	161.	92/3455	05/13/92	South Africa	E21C			
	162.	92/3454	05/13/92	South Africa	E21C			
	163.	84/9431	12/84	South Africa				
	164.	83/3060	04/29/83	South Africa	E21C			
	165.	82/1297	02/26/82	South Africa				

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SS	166.	94/4480	06/22/94	South Africa	E21C		X	
	167.	2000/7587	12/18/00	South Africa	E21C		X	
	168.	2002/6394	08/12/02	South Africa	E21C		X	
	169.	735,749	08/07/53	United Kingdom	85	AID2		
	170.	GB 2 120 579 A	12/07/83	United Kingdom	B02C	19/18		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

SS	171.	AGH ASSOCIATES, "Reef Miner Projects," http://www.reefminer.com/ , September 24, 01, pages 2.
	172.	AGH ASSOCIATES, "Reef Miner Questions," http://www.reefminer.com/page3.html .
	173.	AGH ASSOCIATES, "Reef Miner Description," http://www.reefminer.com/page2.html .
	174.	Brochure entitled "BAUER Trench Cutter Systems"
	175.	Application Notes, Hi-Vac, 12 pages, undated.
	176.	New-Vac Mining Brochure, 9 pages, undated.
	177.	Sixth International Symposium on Mine Mechanization and Automation, The South Africa Institute of Mining and Metallurgy, Johannesburg 2000, 284 pages.
	178.	"McArthur River Uranium," <u>Mining Magazine</u> (Oct. 1997), available at http://www.wma-minelife.com/uranium/mining/art138.htm .

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Substitute for form 1448A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/688,216
				Filing Date	October 15, 2003
				First Named Inventor	Simon Mark Jackson
				Art Unit	3673
Examiner Name	KRECK, JOHN J.				
Sheet	1	of	1	Attorney Docket Number	4770-37

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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Examiner Initials*	Cite No.†	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No.†	
SS	1.	PCT Written Opinion for International App. No. PCT/IB03/05356 dated December 21, 2004.

Examiner Signature	Sunil Singh	Date Considered	3/18/05
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				Filing Date	October 15, 2005
				First Named Inventor	Simon Mark-Jacobs
				Art Unit	3873
Examiner Name	KRECK, JOHN J.				
Sheet	1	of	1	Attorney Docket Number	4770-37

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		Country Code*	Number*, Kind Code* (if known)				

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
Examiner Initials*	Cite No.†	
SS	1.	PCT International Preliminary Examination Report for International App. No. PCT/IB03/05358 dated February 3, 2005.

Examiner Signature	<i>Sunil Singh</i>	Date Considered	3/18/05
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